

The TABLE.

common and other Sands: a description of a very small Shell.

81 Observ. 12. Of Gravel in Urine.

A description of such Gravel, and some tryals made with it, and conjectures at its cause.

Obser. 13. Of Diamonds in Flints.

A description and examination of some of them, explicated further by
83 *Cornish Diamonds: several Observations about reflection and refraction: and some deductions therefrom; as an explication of whiteness; that the Air has a stronger reflection then Water.*
84 *How several Bodies may be made transparent: an explication of the*
85 *Phænomena of Oculus Mundi. Of the regular Geometrical Figures of*
86 *several Bodies: an hypothetical explication mentioned: the method of prosecuting this inquiry.*

88 Observ. 14. Of frozen Figure.

The Figures of hoar Frost, and the
89 *Vortices on windows: several Observations on the branched Figures of*
90 *Urine: the Figures of Regulus Martis stellatus, and of Fern. Of the Figures of Snow. Of frozen water.*

Observ. 15. Of Kettering Stone.

A description of the Figure of the
93 *Particles, and of the Pores, and of the*
94 *Contexture. Several Observations and*
95 *Considerations thereupon: some Conjectures about the medium and propagation of light, and the constitution of fluid and transparent Bodies. Several Experiments to prove the porosity of Marble, and some other Stones. An account of some Experiments to this purpose made on an*

Oculus Mundi: some other Considerations and Experiments about the porosity of Bodies: some other Considerations about the propagation of light and refraction.

Observ. 16. Of Charcoal.

Of two sort of Pores to be found
101 *in all Woods and Vegetables; the shape of them; the number, thickness, manner and use of these Pores.*
102 *An explication of the Phænomena of Coals. The manner of charring Wood, or any other body. What part of Wood is combustible. An Hypothesis of fire explicated in twelve*
103 *particulars, wherein the Action of the Air, as a Menstruum, in the dissolution of all sulphureous bodies, is very particularly explicated, and*
104 *some other Considerations about the Air proposed: the examination of a piece of Lignum fossil sent from*
105 *Rome; and some Conclusions thence deduc'd.*

Observ. 17. Of Wood, and other Bodies, petrified.

Several Observations of divers kinds of these substances. A more particular examination and explication of one very notable piece of petrified Wood; and some Conjectures about the cause of those productions: several Observations made on other petrified Bodies, as Shells, &c. And some probable Conclusions thence deduc'd, about the original cause of
108 *those Bodies.*

Observ. 18. Of the Pores of Cork, and other Bodies.

Several Observations and Considerations about the nature of Cork: the number of Pores in a cubical
114 *Inch,*

The TABLE.

Inch, and several Considerations about Pores. Several Experiments and Observations about the nature of Cork: the Texture and Pores of the Pith of an Elder, and several other Trees: of the Stalks of Burdocks, Teasels, Daisies, Carret, Fennel, Ferne, Reeds, &c. of the frothy texture of the Pith of a Feather: some Conjectures about the probability of values in these Pores. Argued also from the Phænomena of the sensible and humble Plant: some Observations on which are inserted.

121 Observ. 19. Of a Vegetable growing on blighted Leaves.

Several Observations and Examinations made of them: several
122 *Considerations about spontaneous*
123 *generation arising from the putrefaction of Bodies.*

Observ. 20. Of Blew Mould and Mushromes.

The description of several kinds
126 *of Moulds. The method of proceeding in natural Inquiries. Several Considerations about the nature of Mould and Mushromes. 1. That they may be produc'd without seed. 2. That they seem to have none. 3. That Salts, &c. are shap'd into as*
127 *curious figures without a seed. 4. Of a kind of Mushrome growing in a Candle: A more particular explication of this last sort of Mushromes.*
128 *5. Of the figure and manner of the production of petrified Iceicles: several deductions from these Considerations, about the nature of the vegetation of Mould and Mushromes.*

131 Observ. 21. Of Moss.

132 *The description of several sorts of*

Mosses; upon this occasion Conjectures, about the manner of production of these kinds of Mosses, are hinted, and some of them related by a Similitude taken from a piece of Clock-work. The difference of the bigness of vegetables; and the probability least may comprehend as contrivances as the greatest similitudes of other Moulds, Mushromes, and other Vegetables, in Water, Wood,

Observ. 22. Of Sponges, and fibrous Bodies.

Several Observations and Conjectures about the making of Sponges; and several Historical Authors. Scarce any other Bodies such a texture; the fibrous of Leather, Spunk, &c. (as there describ'd) come near. That upon tryal with a Sponge and Oyl the necessary spiration could not be alter'd.

Observ. 23. Of the Form of Sea-weed.

From the curiously shap'd face of this Sea-weed, and others, is conjectured the possibility of multitudes of the like.

Observ. 24. Of the Surface of some Leaves.

The description, 1. Of the Surfaces of Leaves. 2. Of the Surfaces of several Gummes. 3. Of the gummous exudations of small transparent Pearls, described with a Microscope in several others. An Instance of all afforded in a Rosemary Leaf.